DEPARTMENT OF MEDICAL GENETICS:::::PROFESSOR J. LEDERBERG

Preliminary Equipment Request

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|---|---|---|
| Thermostated water baths | | $ 600 |
| Vacuum pump, lyophil | | 600 |
| Centrifuges: | | |
| Air turbine (high speed) International | | |
| 2 Servall | | 1850 |
| Research microscope (phase) | | 1250 |
| 4 Laboratory carts, heavy duty | | 250 |
| 1 micromanipulator de Fonbrune | | 850 |
| | | 5400 |

These represent some of many equipment items already in use in the Genetics (Ag.) laboratory, for which there is likely to be some claim to be left. This request was drawn within an expected allocation of about $5000 for this occasion.

J. Lederberg

Memo to Mr. Hawley

2/26/57

Footnotes:

1. The space units are calculated for the programs expected at the rank of associate professor or professor. They therefore take account of the anticipated growth in each program.

2. The calculations are based on the 20x25' module. Some economy in total space might be achieved if this were variable, butbnot necessarily at less cost.

3. Rough basic floor plan is attached. The main point for construction design is that utilities be available at center line of each room. If the idea of a translucent (reinforced fiberglass) partition is adopted, the utilities should be available from the floor.

4. Note: most laboratories (e.g. Bacteriology) are grossly underwired.

5. In calculating my own program, I am taking into account my own inclination that I have a few too many people; against this is the forearming for transient workers, e.g. medical students on special projects, for which I have no facilities at present.

6. The calculations do not include teaching services. Until now, I have been unable to offer a laboratory course for lack of space. However, it should be possible to make suitable arrangements with Medical Microbiology for this purpose.

7. I would emphasize the strong desirability of fore-planning for airconditioning. Aside from the factor of human comfort, in a room where burners are going all the time and dust-laden drafts have to be minimized, it is very hard to work in summer with sloppy-agar plates. If it is absolutely impossible to include a/c from the start, the ventilation system should be designed to allow for its installation in laboratory units at least further cost.

8. These are not final plans (obviously) but the best prompt guesses.

9. As to equipment (aside from furniture) Probably the largest part of the present setup could be moved, but some items can be effectively used here and should perhaps be left. Not more than a few thousand is involved here. However there are some furniture items that are important to us, and can be made up economically in the UW shops, e.g., built-in circline illuminators in workbenches (such as we now have); glass-shelved cabinets; pipette-washing sink. As far as possible, these equipment details should be deferred to allow sober consideration.

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Microbial Genetics Laboratory

Status quo and conservative needs

1. Personnel. At present 5 postdoctoral, 3 graduate students, 2½ assistants (one M.A.)
(* Prof. Morton, Drs E.M.Lederberg, P. Brakov, I. Brakov, and W. Neumann)

Total 11-12

"normal complement" 2-3 postdoctoral, 5-6 graduate students, 2½ assts.

2. Finances.

Intramural
10 000

College 2500 (excl. secretarial, postage, etc.
(excl. JL salary)

Res. Committee 7500

Total 33 000 plus JL salary

Grants 25 000

NIH 9 000 NSF 8 000 Rock. 6 000

In addition, one or two fellows may have their own direct subsidies.

3. Space. Present facilities: 1500 ft$^2$ lab. 200 ft$^2$ office. plus some shared space. These are adequate for present program, but only barely so. More space is needed to comfortably house the present complement. Much of the present allocation is devoted to service facilities.

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Desirable facilities: 1500 ft$^2$ lab. space, e.g., 3 units of 20x25'. Two of these units would be research laboratories, semi-divided, housing 6 people each. One unit would be a service facility: a) a medium preparation and storage area, b) an instrument area (e.g., spectrophotometer, UV lamp, balances, air-turbine centrifuge, grinders.)

Ann office area of at least 400 ft$^2$. is vital, (½ for private use)
" " grad lab "

In addition to the above, space for the following shared facilities:

temperature rooms (37°, 4° and -20°)
darkroom
dishwashing
sterilization (2 autoclaves; 3 ovens)
secretarial

rough estimate 600 ft$^2$ excl. animal care; bulk storage; shop; teaching facilies*

Total for the first installation: 2500 ft$^2$ (lab and office)

Additional personnel: needs are hard to estimate in advance. In anticipation of hoped-for economies, one additional staff member might do with 1250 ft$^2$, a second with 1500 ft$^2$.

Total for staff of three independent workers: 5250 ft$^2$. (lab and office)

These are reasonable figures. 30% less would be restrictive, 30% more might be extravagant.